Relay Cards
MC73-881-R
MC73-881-RE...

- 8 relay outputs, each with one SPDT contact
- Contact material silver-alloy + 3 µm Au
- Reliable isolation of input circuits from output circuits per VDE 0106
- Bridge rectifier or amplifier input
- Relay according to VDE 0435
- Printed circuit boards and connectors according to VDE 0110
- 8 mm clearances and creepage distances between control circuit and contacts

The 8 channel MC73-881-R relay provides isolation between contact and control circuits (8 mm/4 kV).

A carefully arranged layout of the printed circuit board ensures maximum clearances and creepage distances. A bridge rectifier is wired to the relay coils so the card can work with either pnp (current sourcing), npn (current sinking) or with AC input devices.

8 LEDs located on the front panel indicate the status of the respective output relay.

The MC73-881-R relay cards are also available with input signal amplifiers for low power input signal processing. At a typical power consumption of 2 mA, the input voltage ranges for these relays are as follows:
- 3...8 VDC (MC73-881-RE1)
- 7...18 VDC (MC73-881-RE2)
- 17...30 VDC (MC73-881-RE3)
### Couplers and Interface Devices

<table>
<thead>
<tr>
<th>Type</th>
<th>MC73-881-R/24VUC</th>
<th>MC73-881-RE1/24VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ident-No.</td>
<td>90 793</td>
<td>90 832</td>
</tr>
</tbody>
</table>

#### Clearances and Creepage Distances
- between control circuit and contacts: 8 mm/4 kV
- 8 mm/4 kV

#### Supply Voltage \( U_B \)
- \( - \) 20.4...27.6 VDC

#### Ripple \( W_{pp} \)
- \( - \) \( \leq 10 \% \)

#### Current consumption
- \( - \) 200 mA

### Input Circuits

<table>
<thead>
<tr>
<th>Input voltage</th>
<th>18...35 VUC</th>
<th>3...8 VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current consumption</td>
<td>( \leq 25 ) mA per channel</td>
<td>( \leq 2 ) mA per channel</td>
</tr>
</tbody>
</table>

### Output Circuits

<table>
<thead>
<tr>
<th>Contacts</th>
<th>relay output</th>
<th>relay output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switching voltage</td>
<td>( \leq 36 ) V</td>
<td>( \leq 36 ) V</td>
</tr>
<tr>
<td>Switching current/continuous current</td>
<td>( \leq 2 ) A</td>
<td>( \leq 2 ) A</td>
</tr>
<tr>
<td>Switching capacity</td>
<td>( \leq 72 ) VA/72 W</td>
<td>( \leq 72 ) VA/60 W</td>
</tr>
<tr>
<td>Switching frequency</td>
<td>( \leq 10 ) Hz</td>
<td>( \leq 10 ) Hz</td>
</tr>
</tbody>
</table>

### LED Indications
- Power "ON" - green
- Status indication - yellow

### Eurocard
- Material: glass-fiber reinforced epoxy resin, quality class FR4
- Front panel: plastic, 4TE = 20.32 mm individually interlocking
- Connection: connector per DIN 41612, type F, 48-pole
- Operating temperature: -25...+60 °C
## Relay Cards
### MC 73-881-R...

<table>
<thead>
<tr>
<th>Type</th>
<th>MC73-881-RE2/24VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ident-No.</td>
<td>90833</td>
</tr>
</tbody>
</table>

### Clearances and Creepage Distances
between control circuit and contacts: 8 mm / 4 kV

### Supply Voltage $U_b$
- Ripple $W_{pp}$: $\leq 10 \%$
- Current consumption: $\leq 200 \text{ mA}$

### Input Circuits
- Input voltage: 7...18 VDC
- Current consumption: $\leq 2 \text{ mA per channel}$

### Output Circuits
- Relay output
- Contacts: 1 SPDT contact, silver-alloy + 3 µm Au
- Switching voltage: $\leq 36 \text{ V}$
- Switching current/continuous current: $\leq 2 \text{ A}$
- Switching capacity: $\leq 72 \text{ VA/72 W}$
- Switching frequency: $\leq 10 \text{ Hz}$

### LED Indications
- Power "ON": green
- Status indication: yellow

### Eurocard
- Material: glass-fiber reinforced epoxy resin, quality class FR4
- Front panel: plastic, 4TE = 20.32 mm, individually interlocking
- Connection: connector per DIN 41612, type F, 48-pole
- Operating temperature: -25...+60 °C
## Couplers and Interface Devices

<table>
<thead>
<tr>
<th>Type</th>
<th>MC73-881-RE3/24VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ident-No.</td>
<td>90 794</td>
</tr>
</tbody>
</table>

### Clearances and Creepage Distances
between control circuit and contacts | 8 mm/4 kV |

### Supply Voltage $U_B$
Ripple $W_{pp}$ | $\leq 10\%$ |
Current consumption | $\leq 200$ mA |

### Input Circuits
Input voltage | 17...30 VDC |
Current consumption | $\leq 2$ mA per channel |

### Output Circuits
relay output
Contacts | 1 SPDT contact, silver-alloy + 3 µm Au |
Switching voltage | $\leq 36$ V |
Switching current/continuous current | $\leq 2$ A |
Switching capacity | $\leq 72$ VA/72 W |
Switching frequency | $\leq 10$ Hz |

### LED Indications
- Power "ON" | green |
- Status indication | yellow |

### Eurocard
Material | glass-fiber reinforced epoxy resin, quality class FR4 |
Front panel | plastic, 4TE = 20.32 mm |
Connection | connector per DIN 41612, type F, 48-pole |
Operating temperature | -25...+60 °C |